

NOMBRE: CARMEN MABEL GONZALEZ HENRIQUEZ

ESTUDIOS

ANTECEDENTES ACADÉMICOS	ÁREA DEL CONOCIMIENTO	INSTITUCIÓN	AÑO
TÍTULO PROFESIONAL	QUIMICO	UNIVERSIDAD DE CHILE	2004
MAGÍSTER	---	---	---
DOCTORADO	DOCTORADO EN QUIMICA	UNIVERSIDAD DE CHILE	2009
OTROS ESTUDIOS	POSDOCTORADO EN QUIMICA	PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE	2011
OTROS ESTUDIOS	POSDOCTORADO EN FISICA	PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE	2012
OTROS ESTUDIOS	POSDOCTORADO EN FISICA	UNIVERSIDAD DE CHILE	2012

ACTIVIDADES DOCENTES

NIVEL	ESPECIALIDAD	INSTITUCIÓN	AÑO
PREGRADO	QUIMICA ORGANICA	UNIVERSIDAD DE CHILE	2004-2006
PREGRADO	QUIMICA GENERAL, QUIMICA ORGANICA	PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE	2009-2010
PREGRADO	CARACTERIZACION DE MATERIALES	UNIVERSIDAD TECNOLOGICA METROPOLITANA	2012- FECHA
POSTGRADOS	---	---	---
DOCTORADO	---	---	---
OTROS	---	---	---

PUBLICACIONES últimos 5 años

TÍTULO	TIPO DE PUBLICACIÓN	AÑO
Microwrinkled pH-sensitive hydrogel films and their role on the cell adhesion/proliferation.	ISI	2019
Design and fabrication of biocompatible wrinkled hydrogel films with selective antibiofouling properties.	ISI	2019
New Triphenylamine-Based Oligomeric Schiff Bases Containing Tetraphenylsilane Moieties in the Backbone.	ISI	2019
Polymers for additive manufacturing and 4D-printing: Materials, methodologies, and biomedical applications.	ISI	2019
Micrometric Wrinkled Patterns Spontaneously Formed on Hydrogel Thin Films via Argon Plasma Exposure.	ISI	2019
Antimicrobial Polymers for Additive Manufacturing.	ISI-Expanded	2019
Formation of responsive hierarchical wrinkled patterns on hydrogel films via multi-step methodology.	ISI	2019
New cardo silylated poly(azomethine)s containing 9,9'-diphenylfluorene units as materials with Brønsted-acid dependent fluorescence	ISI	2019
In situ-preparation and characterization of silver-HEMA/PEGDA hydrogel matrix nanocomposites: Silver inclusion studies into hydrogel matrix.	ISI-Expanded	2019
Silylated oligomeric poly (ether-azomethine) s from monomers containing biphenyl moieties: synthesis and characterization.	ISI	2018
New oligomeric poly (ether-imide) s containing diphenylsilane and dibenzofuran moieties. Synthesis and characterization.	ISI	2018
Diphenylsilane-containing linear and rigid whole aromatic poly(azomethine)s. Structural and physical characterization.	ISI	2018

Micro-wrinkled hydrogel patterned surfaces using pH-sensitive monomers.	ISI	2018
Smart pH-Responsive Antimicrobial Hydrogel Scaffolds Prepared by Additive Manufacturing	ISI-Expanded	2018
Structure correlation of silylated dicarboxylic acid monomer and its respective oligomeric polyamide-imide using experimental and theoretical vibrational spectra.	ISI	2017
Advances in the Fabrication of Antimicrobial Hydrogels for Biomedical Applications.	ISI	2017
A simple method to generate spontaneous chemisorption of metallic particles mediated by carboxylate groups from silylated oligomeric poly(amide-imide)s.	ISI	2017
Strategies to Fabricate Polypeptide-Bases Structures via Ring-Opening Polymerization of N-Carboxyanhydrides.	ISI	2017
Thermal Response Analysis of Phospholipid Bilayers Using Ellipsometric Techniques	ISI-Expanded	2017
Fabrication of micro and sub-micrometer wrinkled hydrogel surfaces through thermal and photocrosslinking processes.	ISI	2016
Synthesis and characterization of aromatic poly(ether-imide)s based on bis(4-(3,4-dicarboxyphenoxy)phenyl)-R,R-silane anhydrides (R= Me, Ph) - Spontaneous formation of surface micropores from THF solutions.	ISI	2016
Synthesis and Thermal, Optical and Morphological Characterization of Oligomeric Polyamides Based on Thiophene and Alkyl/Phenyl-Silane Moieties. Study of the Electrospun Deposition process.	ISI	2016
Poly(ether-imide-amide)s obtained from bis[4-(4-aminophenoxy)phenyl] diphenylsilane and dicarboxylic acids derivatives of bis(3,4-dicarboxyphenyl)dimethylsilane anhydride combined with L-aminoacids.	ISI	2016
Artificial biomembranes stabilized over spin coated hydrogel scaffolds. Crosslinking agent nature induces wrinkled or flat surfaces on the hydrogel.	ISI	2016
Electrospinning deposition of hydrogel fibers used as scaffold for biomembranes. Thermal stability of DPPC corroborated by ellipsometry.	ISI	2015
Thin and ordered hydrogel films deposited through electrospinning technique; a simple and efficient support for organic bilayers.	ISI	2015
Artificial biomembrane based on DPPC — Investigation into phase transition and thermal behavior through ellipsometric techniques.	ISI	2015
Silarylene-containing oligo(ether-amide)s based on bis(4-(4-amino phenoxy)phenyl)dimethylsilane. Effect of the dicarboxylic acid structure on some properties.	ISI	2015
Effect of annealing and UV-radiation time over micropore architecture of self-assembled block copolymer thin film.	ISI	2015

PROYECTOS DE INVESTIGACIÓN EN PROYECTOS CONCURSABLES últimos 5 años

NOMBRE	ROL	AÑO
Oli- and poly-azomethines derived from monomers with silylated nuclei. Synthesis, characterization and study of properties. FONDECYT N° 1200329.	CO-INVESTIGADOR	2020-2024
Spontaneous formation of wrinkled patterns using smart hydrogels. FONDECYT N° 1170209	INVESTIGADOR PRINCIPAL	2017-2021
Processable silylated linear poly(azomethines) and poly(azines) of complex structure. Design, synthesis and characterization. FONDECYT N° 1150157	CO-INVESTIGADOR	2015-2019
Biomimetic phospholipid bilayer membranes on porous films or fibers of hydrogel scaffolds produced by photo-induced polymerization, for potential applications as optical bio-sensor. FONDECYT N° 11121281	INVESTIGADOR PRINCIPAL	2012-2015
Formación de membranas artificiales de bicapas fosfolipídicas soportadas en hidrogeles porosos fotopolimerizables, con posible aplicación en biosensores ópticos. PAI N° 7912010031	INVESTIGADOR PRINCIPAL	2012-2016